

**eZ-Audits**  
**Use-Case Specification 22:**  
**Re-calculate Ratios and Composite Score**

**Version 1.1**

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Re-calculate Ratios and Composite Score	Date: 08/05/2002
Use Case 22	

## Revision History

Date	Version	Description	Author
07-17-2002	1.0	Final version created for 7/17 Deliverable Submission	Maja Dragnic
08-05-2002	1.1	Revised version created for deliverable re-submission	Matt Portolese

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# Use-Case Specification: Re-calculate Ratios and Composite Score

## 1. Recalculate Ratios and Composite Score

### 1.1 Brief Description

For every financial statement that Case team receives, Financial Analyst completes a “Financial Statement Worksheet” in order to re-calculate different ratios and composite score. Re-calculations are used to make ultimate determination on a financial statement.

## 2. Flow of Events

### 2.1 Basic Flow

- 1) **Financial Analyst actor logs into the system**  
See Extension Point - Use Case 3 for details of the Log In Process.
- 2) **System displays Financial Analyst Home Page**  
See Extension Point - Use Case 15 for details.
- 3) **Financial Analyst actor selects to view a financial statement**  
See Extension Point - Use Case 15 for details.
- 4) **System displays information for the selected financial statement**  
See Extension Point - Use Case 15 for details.
- 5) **Financial Analyst actor selects “Complete Financial Worksheet” function**  
Financial Analyst actor selects “Complete Financial Statement Worksheet” function.
- 6) **System displays a page where Financial Analyst actor can select the type of financial worksheet**  
System displays a page where it offers Financial Analyst ability to select one of the four types of the financial worksheets to complete:
  1. For-Profit Financial Statement in Accordance with 34 CFR 668.171
  2. For-Profit Financial Statement in Accordance with 34 CFR 668.15
  3. Non-Profit Financial Statement in Accordance with 34 CFR 668.171
  4. Non-Profit Financial Statement in Accordance with 34 CFR 668.15

(Financial Analyst must be able to complete more than one type of worksheet per one institution. Thus, Financial Analyst should be able to return to this page after completing one worksheet and select different type to complete).

- 7) **Financial Analyst actor selects type of financial statement worksheet to complete**

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Financial Analyst selects to complete financial worksheet for For-Profit Financial Statement in Accordance with 34 CFR 668.171

(Basic flow describes the way in which the actor completes For-Profit Financial Statement in Accordance with 34 CFR 668.171. Completions of other types of financial statement worksheets are described in alternative flows).

#### 8) **System displays selected worksheet with some fields being populated**

System displays financial statement worksheet for For-Profit Financial Statement in Accordance with 34 CFR 668.171.

Worksheet has three types of fields: fields that are populated, fields that need Financial Analyst actor's input, and fields that are calculated based on the actor's input. Besides the fields that are calculated, based on the actor's input, there are "Calculate" buttons. By selecting these buttons, Financial Analyst can see calculated values for the section of worksheet. There is "Calculate All" button to accommodate Financial Analyst who chooses to first enter all values and then calculated values.

Worksheet is organized into three main parts: general information, Accounts (divided into accounts relevant for Primary Reserve Ratio, Equity Ratio, and Net Income Ratio) and Ratios. Fields that are populated display general information and are located at the beginning of the worksheet. Please see Extension Point 6.1 for the complete list of these fields.

There are also four free-text boxes on the worksheet with following labels: "Purpose", "Source", "Analysis", and "Conclusion".

On the bottom of the page there following text explaining composite score values:

" Scale	Fail	-1 to .945
	Zone	.945 to 1.45
	Pass	1.46 to 3.0"

#### 9) **Financial Analyst actor enters values into fields in Accounts section of the worksheet and selects the save function**

Financial Analyst actor enters values into the following fields located in the Accounts section of the worksheet:

1. Review Date (located in the section of the worksheet for general information)
2. Total Assets
3. Total Liabilities
4. Intangibles
5. Unsecured Related Party Receivables
6. Net Fixed Assets
7. Long-Term Debt
8. Post-Emp or Rtrmnt Liab
9. Total Expenses
10. Total Revenues
11. If Composite Score <1.5, HEA Program Funds

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Financial Analyst actor selects save function.

**10) System saves the values entered by Financial Analyst actor**

System saves the values entered by Financial Analyst actor

**11) Financial Analyst selects “Calculate All” function**

Financial Analyst selects “Calculate All” function

**12) System calculates values**

System calculates values in the following fields:

Name of the Field	Formula
Total Equity	Total Assets – Total Liabilities
Long-Term debt	If Long Term Debt > Net Fixed Assets then Net Fixed Assets If Long Term Debt < Net Fixed Assets then Long Term Debt
Adjusted Equity	Total Equity – Intangibles – Unsecured Related Party Receivables – Net Fixed Assets + Long Term Debt + Post-Emp or Rtrmnt Liab
Total Expenses	Total Expenses – HEA Program Funds
Modified Equity	Total Equity – Intangibles – Unsecured Related Party Receivables
Modified Assets	Total Assets – Intangibles - Unsecured Related Party Receivables
Income Before Taxes	Total Revenue – Total Expenses
Total Revenues	Total Revenues – HEA Program Funds
Primary Reserve Ratio	Adjusted Equity / Total Expenses
Equity Ratio	Modified Equity / Modified Assets
Net Income Ratio	Net Income Before Taxes / Total Revenues
Primary Reserve Ratio Strength Factor	IF (Primary Reserve Ratio * 20) > 3, THEN Strength Factor = “3”, IF (Primary Reserve Ratio * 20) < -1, THEN Strength Factor = “-1”, ELSE, Strength Factor = Primary Reserve Ratio * 20.
Equity Ratio Strength Factor	IF (Equity Ratio * 6) > 3, THEN Strength Factor = “3”,

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Name of the Field	Formula
	IF (Equity Ratio * 6) < -1, THEN Strength Factor = “-1”, ELSE, Strength Factor = Equity Ratio * 6.
Net Income Strength Factor	IF (Net Income Ratio * 33.3 + 1) > 3, THEN Strength Factor = “3”, IF (Net Income Ratio * 33.3 + 1) < -1, THEN Strength Factor = “-1”, ELSE, Strength Factor = Net Income Ratio * 33.3 + 1.
Primary Reserve Weighted Score	30% * Primary Reserve Strength Factor
Equity Weighted Score	40% * Equity Strength Factor
Net Income Weighted Score	30% * Net Income Strength Factor
Composite Score	(Primary Reserve Composite Score + Equity Composite Score + Net Income Composite Score) rounded to one decimal point

**13) Financial Analyst actor selects “Save” function**

Financial Analyst actor selects “Save” function

**14) System saves the values**

System saves all the values on the worksheet

**15) Financial Analyst actor enters values for “Purpose”, “Source”, “Analysis” and “Conclusion” free text boxes and selects “Save” function**

Financial Analyst is presented the following:

Purpose: Drop-down box containing annual review, recert, change in ownership, additional location, flagged financial statements, initial as values.

Source: Free text box pre-populated with the following data: FY end, Name of CPA, Opinion Type (unqualified, qualified, going concern)

Conclusion: Drop-down box containing pass, fail, zone as values.

Analysis: Free text box

Financial Analyst enters text into any or all of the free text boxes and selects the appropriate values from the drop-down lists. Financial Analyst then selects the “Save” function.

**16) System saves text entered by the Financial Analyst actor**

System saves all the values on the worksheet including the text in the free text boxes

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#### **17) Financial Analyst actor exits the financial worksheet**

Financial Analyst actor selects to exit the financial worksheet



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## 2.2 Alternative Flows

### 2.2.1 Financial Analyst actor completes financial worksheet for For-Profit Financial Statements in Accordance with 34 CFR 668.15

**Steps 1-6 are same as in the Basic Flow**

#### 6) Financial Analyst actor selects type of financial statement worksheet to complete

Financial Analyst selects to complete financial worksheet for For-Profit Financial Statement in Accordance with 34 CFR 668.15.

#### 7) System displays selected worksheet with some fields being populated

System displays financial statement worksheet for For-Profit Financial Statement in Accordance with 34 CFR 668.15.

Worksheet has three types of fields: fields that are populated, fields that need Financial Analyst actor's input, and fields that are calculated based on the actor's input. Besides the fields that are calculated, based on the actor's input, there are "Calculate" buttons. By selecting these buttons, Financial Analyst can see calculated values for the section of worksheet. There is "Calculate All" button to accommodate Financial Analyst who chooses to first enter all values and then calculated values.

Worksheet is organized into four main parts: general information, Assets (divided into Current Assets, Other Current Assets, Non-Current Assets, and Total Assets), Liabilities & Owner's Equity, and Ratios. Fields that are populated display general information and are located at the beginning of the worksheet. Please see Extension Point 6.1 for the complete list of these fields.

There are also four free-text boxes on the worksheet with following labels: "Purpose", "Source", "Analysis", and "Conclusion".

On the bottom of the page there following text explaining "Notes":

"Notes

- 1 Total assets less intangible assets
- 2 Quick assets per analyst divided by current liabilities
- 3 Total current assets divided by current liabilities
- 4 Total liabilities divided by total assets per analyst
- 5 Total liabilities divided by total equities
- 6 Total assets per analyst less total liabilities and percentage change over one & two year period
- 7 Balance of retained earnings and percentage changes
- 8 Net income (loss) and percent change over prior year"

#### 9) Financial Analyst actor enters values into fields in Assets and Liability & Owner's Equity sections of the worksheet and selects the save function

Financial Analyst actor enters values into the following fields of the worksheet:

1. Review Date
2. Cash and Cash Equivalents (for *Latest Fiscal Year*)
3. Cash and Cash Equivalents (for *Earlier Fiscal Year*)
4. Net Accounts Receivable (for *Latest Fiscal Year*)
5. Net Accounts Receivable ( for *Earlier Fiscal Year*)

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6. Marketable Securities (for *Latest Fiscal Year*)
7. Marketable Securities (for *Earlier Fiscal Year*)
8. Other Cash Equivalents (for *Latest Fiscal Year*)
9. Other Cash Equivalents (for *Earlier Fiscal Year*)
10. Inventory (for *Latest Fiscal Year*)
11. Inventory (for *Earlier Fiscal Year*)
12. Prepaid Expenses (for *Latest Fiscal Year*)
13. Prepaid Expenses (for *Earlier Fiscal Year*)
14. Other (for *Latest Fiscal Year*)
15. Other (for *Earlier Fiscal Year*)
16. Long-Term Investments (for *Latest Fiscal Year*)
17. Long-Term Investments (for *Earlier Fiscal Year*)
18. Property, Plant, and Equipment (for *Latest Fiscal Year*)
19. Property, Plant, and Equipment (for *Earlier Fiscal Year*)
20. Other Assets (for *Latest Fiscal Year*)
21. Other Assets (for *Earlier Fiscal Year*)
22. Intangible Assets (for *Latest Fiscal Year*)
23. Intangible Assets (for *Earlier Fiscal Year*)
24. Current Liabilities (for *Latest Fiscal Year*)
25. Current Liabilities (for *Earlier Fiscal Year*)
26. Long Term Liabilities (for *Latest Fiscal Year*)
27. Long Term Liabilities (for *Earlier Fiscal Year*)
28. Retained Earnings (Note 7) (for *Latest Fiscal Year*)
29. Retained Earnings (Note 7) (for *Earlier Fiscal Year*)
30. Net Income (Loss) (Note 8) (for *Latest Fiscal Year*)
31. Net Income (Loss) (Note 8) (for *Earlier Fiscal Year*)

Financial Analyst actor selects save function.

**Steps 10 and 11 are the same as in the Basic Flow.**

## 12) System calculates values

System calculates values in the following fields:

Name of the field	Formula
Quick Assets per Analyst (for <i>Latest Fiscal Year</i> )	Cash and Cash Equivalents + Net Accounts Receivables + Marketable Securities (all for <i>Latest Fiscal Year</i> )
Quick Assets per Analyst (for <i>Earlier Fiscal Year</i> )	Cash and Cash Equivalents + Net Accounts Receivables + Marketable Securities (all for <i>Earlier Fiscal Year</i> )
Total Current Assets (for <i>Latest Fiscal</i>	Quick Assets per Analyst (for <i>Latest Fiscal Year</i> ) + Other

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Name of the field	Formula
<i>Year)</i>	Cash Equivalents + Inventory + Prepaid Expenses + Other (all for <i>Latest Fiscal Year</i> )
Total Current Assets (for <i>Earlier Fiscal Year</i> )	Quick Assets per Analyst (for <i>Earlier Fiscal Year</i> ) + Other Cash Equivalents + Inventory + Prepaid Expenses + Other (all for <i>Earlier Fiscal Year</i> )
Total Assets (for <i>Latest Fiscal Year</i> )	Total Current Assets + Long-Term Investments + Property, Plant, and Equipment + Other Assets + Intangible Assets (all for <i>Latest Fiscal Year</i> )
Total Assets (for <i>Earlier Fiscal Year</i> )	Total Current Assets + Long-Term Investments + Property, Plant, and Equipment + Other Assets + Intangible Assets (all for <i>Earlier Fiscal Year</i> )
Total Assets Per Analyst (Note 1) (for <i>Latest Fiscal Year</i> )	Total Assets – Intangible Assets (all for <i>Latest Fiscal Year</i> )
Total Assets Per Analyst (Note 1) (for <i>Earlier Fiscal Year</i> )	Total Assets – Intangible Assets (all for <i>Earlier Fiscal Year</i> )
Total Liabilities (for <i>Latest Fiscal Year</i> )	Current Liabilities + Long Term Liabilities (all for <i>Latest Fiscal Year</i> )
Total Liabilities (for <i>Earlier Fiscal Year</i> )	Current Liabilities + Long Term Liabilities (all for <i>Earlier Fiscal Year</i> )
Total Liabilities and Owner's Equity (for <i>Latest Fiscal Year</i> )	Total Liabilities + Total Equities (all for <i>Latest Fiscal Year</i> )
Total Liabilities and Owner's Equity (for <i>Earlier Fiscal Year</i> )	Total Liabilities + Total Equities (all for <i>Earlier Fiscal Year</i> )
Quick or Acid Test (Note 2) (for <i>Latest Fiscal Year</i> )	Quick Notes Per Analyst / Current Liabilities (all for <i>Latest Fiscal Year</i> )
Quick or Acid Test (Note 2) (for <i>Earlier Fiscal Year</i> )	Quick Notes Per Analyst / Current Liabilities (all for <i>Earlier Fiscal Year</i> )
Current (Note 3) (for <i>Latest Fiscal Year</i> )	Total Current Assets / Current Liabilities (all for <i>Latest Fiscal Year</i> )
Current (Note 3) (for <i>Earlier Fiscal Year</i> )	Total Current Assets / Current Liabilities (all for <i>Earlier Fiscal Year</i> )
Debt to Total Tangible Assets (Note 4) (for <i>Latest Fiscal Year</i> )	Total Liabilities / Total Assets Per Analyst (Note 1) (all for <i>Latest Fiscal Year</i> )
Debt to Total Tangible Assets (Note 4) (for <i>Earlier Fiscal Year</i> )	Total Liabilities / Total Assets Per Analyst (Note 1) (all for <i>Earlier Fiscal Year</i> )
Debt to Equity (Note 5) (for <i>Latest Fiscal Year</i> )	Total Liabilities / Total Equities (all for <i>Latest Fiscal Year</i> )
Debt to Equity (Note 5) (for <i>Earlier Fiscal Year</i> )	Total Liabilities / Total Equities (all for <i>Earlier Fiscal Year</i> )
Tangible Net Worth (Note 6) (Percent Change 2 Year)	(Tangible Net Worth (Note 6) (for <i>Latest Fiscal Year</i> ) - Tangible Net Worth (Note 6) 1st Year Beg. Balance) / Tangible Net Worth (Note 6) 1st Year Beg. Balance
Tangible Net Worth (Note 6) (Percent Change 1 Year)	(Tangible Net Worth (Note 6) (for <i>Earlier Fiscal Year</i> ) - Tangible Net Worth (Note 6) 1st Year Beg. Balance) / Tangible Net Worth (Note 6) 1st Year Beg. Balance
Tangible Net Worth (Note 6) (for <i>Latest Fiscal Year</i> )	Total Assets Per Analyst (Note 1) (for <i>Latest Fiscal Year</i> ) – Total Liabilities (for <i>Latest Fiscal Year</i> )
Tangible Net Worth (Note 6) (for <i>Earlier Fiscal Year</i> )	Total Assets Per Analyst (Note 1) (for <i>Earlier Fiscal Year</i> ) – Total Liabilities (for <i>Earlier Fiscal Year</i> )
Retained Earnings (Note 7) (Percent	(Retained Earnings (Note 7) (for <i>Latest Fiscal Year</i> ) –

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Name of the field	Formula
Change 2 Year)	Retained Earnings (Note 7) 1st Year Beg. Balance) / Retained Earnings (Note 7) 1st Year Beg. Balance
Retained Earnings (Note 7) (Percent Change 1 Year)	(Retained Earnings (Note 7) (for <i>Earlier Fiscal Year</i> ) – Retained Earnings (Note 7) 1st Year Beg. Balance) / Retained Earnings (Note 7) 1st Year Beg. Balance
Net Income (loss) (Note 8) (Percent Change 1 Year)	Net Income (loss) (Note 8) (for <i>Latest Fiscal Year</i> ) – Net Income (loss) (Note 8) (for <i>Earlier Fiscal Year</i> ) / Net Income (loss) (Note 8) (for <i>Earlier Fiscal Year</i> )

**Steps 13 – 17 are the same as in the Basic Flow.**

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**2.2.2 Financial Analyst actor completes financial worksheet for Non-Profit Financial Statement in Accordance with 34 CFR 668.171**

**Steps 1-6 are same as in the Basic Flow**

**7) Financial Analyst actor selects type of financial statement worksheet to complete**

Financial Analyst selects to complete financial worksheet for Non-Profit Financial Statement in Accordance with 34 CFR 668.171.

**8) System displays selected worksheet with some fields being populated**

System displays financial statement worksheet for Non-Profit Financial Statement in Accordance with 34 CFR 668.171.

Worksheet has three types of fields: fields that are populated, fields that need Financial Analyst actor's input, and fields that are calculated based on the actor's input. Besides the fields that are calculated, based on the actor's input, there are "Calculate" buttons. By selecting these buttons, Financial Analyst can see calculated values for the section of worksheet. There is "Calculate All" button to accommodate Financial Analyst actor who chooses to first enter all values and then calculated values.

Worksheet is organized into three main parts: general information, Accounts (divided into accounts relevant for Primary Reserve Ratio, Equity Ratio, and Net Income Ratio) and Ratios. Fields that are populated display general information and are located at the beginning of the worksheet. Please see Extension Point 6.1 for the complete list of these fields.

There are also four free-text boxes on the worksheet with following labels: "Purpose", "Source", "Analysis", and "Conclusion".

On the bottom of the page there following text explaining composite score values:

" Scale                      Fail        -1 to .945  
    Zone        .945 to 1.45  
    Pass        1.46 to 3.0"

**9) Financial Analyst actor enters values into fields in Accounts section of the worksheet and selects the save function**

Financial Analyst actor enters values into the following fields located in the Accounts section of the worksheet:

1. Review Date (located in the section of the worksheet for general information)
2. Total Assets
3. Total Liabilities
4. Intangibles
5. Unsecured Related Party Receivables
6. Net Fixed Assets
7. Permanently Restricted Net Assets
8. Annuity, Life Income & Term
9. Long-Term Debt
10. Post-Retirement Liability

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11. Total Expenses

12. Total Unrestricted Revenues

13. If Composite Score <1.5, HEA Program Funds

Financial Analyst actor selects save function.

**Steps 10 and 11 are the same as in the Basic Flow.**

## 12) System calculates values

System calculates values in the following fields:

Name of the Field	Formula
Net Assets	Total Assets – Total Liabilities
Long-Term debt	If Annuity, Life Income & Term > Net Fixed Assets then Net Fixed Assets  If Annuity, Life Income & Term < Net Fixed Assets then Annuity, Life Income & Term
Expendable Net Assets	Net Assets – Intangibles – Unsecured Related Party Receivables – Net Fixed Assets – Permanently Restricted Net Assets - Annuity, Life Income & Term - Long Term Debt - Post-Retirement Liability
Total Expenses	Total Expenses – HEA Program Funds
Modified Net Assets	Net Assets – Intangibles – Unsecured Related Party Receivables
Modified Assets	Total Assets – Intangibles - Unsecured Related Party Receivables
Change in Unrestricted Net Assets	Total Unrestricted Revenues – Total Expenses
Total Unrestricted Revenues	Total Unrestricted Revenues – HEA Program Funds
Primary Reserve Ratio	Expendable Net Assets / Calculated Total Expenses
Equity Ratio	Modified Net Assets / Modified Assets
Net Income Ratio	Change in Unrestricted Net Assets / Calculated Total Unrestricted Revenues
Primary Reserve Ratio Strength Factor	IF (Primary Reserve Ratio * 10) > 3, THEN Strength Factor = “3”, IF (Primary Reserve Ratio * 10) < -1, THEN Strength Factor = “-1”, ELSE, Strength Factor = Primary Reserve Ratio * 10.
Equity Ratio Strength Factor	IF (Equity Ratio * 6) > 3,

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Name of the Field	Formula
	<p>THEN Strength Factor = "3",</p> <p>IF (Equity Ratio * 6) &lt; -1,</p> <p>THEN Strength Factor = "-1",</p> <p>ELSE, Strength Factor = Equity Ratio * 6.</p>
Net Income Strength Factor	<p>IF Net Income Ratio &gt; 3,</p> <p>THEN Net Income Strength Factor = "3",</p> <p>IF Net Income Ratio &lt; -1,</p> <p>THEN Net Income Strength Factor = "-1",</p> <p>ELSE IF Net Income Ratio is negative THEN Net Income Strength Factor = 1 + (25 * net income ratio result); IF Net Income Ratio is positive THEN Net Income Strength Factor = 1 + (50 * net income ratio result); IF Net ratio result is 0 THEN Net Income Strength Factor is 1</p>
Primary Reserve Weighted Score	40% * Primary Reserve Strength Factor
Equity Weighted Score	40% * Equity Strength Factor
Net Income Weighted Score	20% * Net Income Strength Factor
Composite Score	(Primary Reserve Composite Score + Equity Composite Score + Net Income Composite Score) rounded to one decimal point

**Steps 13 – 17 are same as in the Basic Flow.**

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### 2.2.3 *Financial Analyst actor completes financial worksheet for Non-Profit Financial Statements in Accordance with 34 CFR 668.15*

**Steps 1-6 are same as in the Basic Flow**

#### **7) Financial Analyst actor selects type of financial statement worksheet to complete**

Financial Analyst selects to complete financial worksheet for Non-Profit Financial Statement in Accordance with 34 CFR 668.15.

#### **8) System displays selected worksheet with some fields being populated**

Worksheet has three types of fields: fields that are populated, fields that need Financial Analyst actor's input, and fields that are calculated based on the actor's input. Besides the fields that are calculated, based on the actor's input, there are "Calculate" buttons. By selecting these buttons, Financial Analyst can see calculated values for the section of worksheet. There is "Calculate All" button to accommodate Financial Analyst who chooses to first enter all values and then calculated values.

Worksheet is organized into four main parts: general information, Assets (divided into Current Assets, Other Current Assets, Non-Current Assets, and Total Assets), Liabilities & Net Assets, and Ratios. Fields that are populated display general information and are located at the beginning of the worksheet. Please see Extension Point 6.1 for the complete list of these fields.

There are also four free-text boxes on the worksheet with following labels: "Purpose", "Source", "Analysis", and "Conclusion".

On the bottom of the page there following text explaining "Notes":

"Notes

- 2 Total assets less intangible assets
- 2 Quick assets per analyst divided by current liabilities
- 3 Total current assets divided by current liabilities
- 4 Total liabilities divided by total assets per analyst
- 5 Total liabilities divided by unrest/temp rest net assets
- 6 Unrestricted/temporarily restricted net assets & percentage change over one & two year period
- 7 Total net assets & percentage change
- 8 Excess of revenues over expenditures and percent change over prior year"

#### **9) Financial Analyst actor enters values into fields selects the save function**

Financial Analyst actor enters values into the following fields of the worksheet:

1. Review Date
2. Cash and Cash Equivalents (for *Latest Fiscal Year*)
3. Cash and Cash Equivalents (for *Earlier Fiscal Year*)
4. Net Accounts Receivable (for *Latest Fiscal Year*)
5. Net Accounts Receivable ( for *Earlier Fiscal Year*)
6. Other Cash Equivalents (for *Latest Fiscal Year*)
7. Other Cash Equivalents (for *Earlier Fiscal Year*)
8. Inventory (for *Latest Fiscal Year*)



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9. Inventory (for *Earlier Fiscal Year*)
  10. Prepaid Expenses (for *Latest Fiscal Year*)
  11. Prepaid Expenses (for *Earlier Fiscal Year*)
  12. Other (for *Latest Fiscal Year*)
  13. Other (for *Earlier Fiscal Year*)
  14. Long-Term Investments (for *Latest Fiscal Year*)
  15. Long-Term Investments (for *Earlier Fiscal Year*)
  16. Property, Plant, and Equipment (for *Latest Fiscal Year*)
  17. Property, Plant, and Equipment (for *Earlier Fiscal Year*)
  18. Restricted Cash and Investments (for *Latest Fiscal Year*)
  19. Restricted Cash and Investments (for *Earlier Fiscal Year*)
  20. Restricted Receivables (for *Latest Fiscal Year*)
  21. Restricted Receivables (for *Earlier Fiscal Year*)
  22. Intangible Assets (for *Latest Fiscal Year*)
  23. Intangible Assets (for *Earlier Fiscal Year*)
  24. Current Liabilities (for *Latest Fiscal Year*)
  25. Current Liabilities (for *Earlier Fiscal Year*)
  26. Long Term Liabilities (for *Latest Fiscal Year*)
  27. Long Term Liabilities (for *Earlier Fiscal Year*)
  28. Unrestricted Net Assets (for *Latest Fiscal Year*)
  29. Unrestricted Net Assets (for *Earlier Fiscal Year*)
  30. Temporarily Restricted Net Assets (for *Latest Fiscal Year*)
  31. Temporarily Restricted Net Assets (for *Earlier Fiscal Year*)
  32. Permanently Restricted Net Assets (for *Latest Fiscal Year*)
  33. Permanently Restricted Net Assets (for *Earlier Fiscal Year*)
  34. Unrest/Temp Restricted Net Assets (Note 6) 1<sup>st</sup> Year Beg. Balance
  35. Total Net Assets (Note 7) 1<sup>st</sup> Year Beg. Balance
  36. Excess of Rev Over Exp (Note 8) (for *Latest Fiscal Year*)
  37. Excess of Rev Over Exp (Note 8) (for *Earlier Fiscal Year*)
- Financial Analyst actor selects save function.

**Steps 10 and 11 are the same as in the Basic Flow.**

### 13) System calculates values

System calculates values in the following fields:

Name of the field	Formula
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eZ-Audit	Version: 1.1
Re-calculate Ratios and Composite Score	Date: 08/05/2002
Use Case 22	

Name of the field	Formula
Quick Assets per Analyst (for <i>Latest Fiscal Year</i> )	Cash and Cash Equivalents + Net Accounts Receivables (all for <i>Latest Fiscal Year</i> )
Quick Assets per Analyst (for <i>Earlier Fiscal Year</i> )	Cash and Cash Equivalents + Net Accounts Receivables (all for <i>Earlier Fiscal Year</i> )
Total Current Assets (for <i>Latest Fiscal Year</i> )	Quick Assets per Analyst (for <i>Latest Fiscal Year</i> ) + Other Cash Equivalents + Inventory + Prepaid Expenses + Other (all for <i>Latest Fiscal Year</i> )
Total Current Assets (for <i>Earlier Fiscal Year</i> )	Quick Assets per Analyst (for <i>Earlier Fiscal Year</i> ) + Other Cash Equivalents + Inventory + Prepaid Expenses + Other (all for <i>Earlier Fiscal Year</i> )
Total Assets (for <i>Latest Fiscal Year</i> )	Total Current Assets + Long-Term Investments + Property, Plant, and Equipment + Restricted Cash and Investments + Restricted Receivables (all for <i>Latest Fiscal Year</i> )
Total Assets (for <i>Earlier Fiscal Year</i> )	Total Current Assets + Long-Term Investments + Property, Plant, and Equipment + Restricted Cash and Investments + Restricted Receivables (all for <i>Earlier Fiscal Year</i> )
Total Assets Per Analyst (Note 1) (for <i>Latest Fiscal Year</i> )	Total Assets – Intangible Assets (all for <i>Latest Fiscal Year</i> )
Total Assets Per Analyst (Note 1) (for <i>Earlier Fiscal Year</i> )	Total Assets – Intangible Assets (all for <i>Earlier Fiscal Year</i> )
Total Liabilities (for <i>Latest Fiscal Year</i> )	Current Liabilities + Long Term Liabilities (all for <i>Latest Fiscal Year</i> )
Total Liabilities (for <i>Earlier Fiscal Year</i> )	Current Liabilities + Long Term Liabilities (all for <i>Earlier Fiscal Year</i> )
Total Net Assets (for <i>Latest Fiscal Year</i> )	Unrestricted Net Assets + Temporarily Restricted Net Assets + Permanently Restricted Net Assets (all for <i>Latest Fiscal Year</i> )
Total Net Assets (for <i>Earlier Fiscal Year</i> )	Unrestricted Net Assets + Temporarily Restricted Net Assets + Permanently Restricted Net Assets (all for <i>Earlier Fiscal Year</i> )
Total Liabilities and Net Assets (for <i>Latest Fiscal Year</i> )	Total Liabilities + Total Net Assets (all for <i>Latest Fiscal Year</i> )
Total Liabilities and Net Assets (for <i>Earlier Fiscal Year</i> )	Total Liabilities + Total Net Assets (all for <i>Earlier Fiscal Year</i> )
Quick or Acid Test (Note 2) (for <i>Latest Fiscal Year</i> )	Quick Notes Per Analyst / Current Liabilities (all for <i>Latest Fiscal Year</i> )
Quick or Acid Test (Note 2) (for <i>Earlier Fiscal Year</i> )	Quick Notes Per Analyst / Current Liabilities (all for <i>Earlier Fiscal Year</i> )
Current (Note 3) (for <i>Latest Fiscal Year</i> )	Total Assets / Current Liabilities (all for <i>Latest Fiscal Year</i> )
Current (Note 3) (for <i>Earlier Fiscal Year</i> )	Total Assets / Current Liabilities (all for <i>Earlier Fiscal Year</i> )
Debt to Total Tangible Assets (Note 4) (for <i>Latest Fiscal Year</i> )	Total Liabilities / Total Assets Per Analyst (Note 1) (all for <i>Latest Fiscal Year</i> )
Debt to Total Tangible Assets (Note 4) (for <i>Earlier Fiscal Year</i> )	Total Liabilities / Total Assets Per Analyst (Note 1) (all for <i>Earlier Fiscal Year</i> )
Debt to Unrestricted/Temp Rest Net Assets (Note 5) (for <i>Latest Fiscal Year</i> )	Total Liabilities / (Unrestricted Net Assets + Temporarily Restricted Net Assets) (all for <i>Latest Fiscal Year</i> )
Debt to Unrestricted/Temp Rest Net Assets (Note 5) (for <i>Earlier Fiscal Year</i> )	Total Liabilities / (Unrestricted Net Assets + Temporarily Restricted Net Assets) (all for <i>Earlier Fiscal Year</i> )
Unrest/Temp Rest. Net Assets (Note 6) (Percent Change 2 Year)	(Unrest/Temp Rest. Net Assets (Note 6) (for <i>Latest Fiscal Year</i> ) - Unrest/Temp Rest. Net Assets (Note 6) 1st Year Beg.

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Name of the field	Formula
	Balance) / Unrest/Temp Rest. Net Assets (Note 6) 1st Year Beg. Balance
Unrest/Temp Rest. Net Assets (Note 6) (Percent Change 1 Year)	(Unrest/Temp Rest. Net Assets (Note 6) (for <i>Earlier Fiscal Year</i> ) - Unrest/Temp Rest. Net Assets (Note 6) 1st Year Beg. Balance) / Unrest/Temp Rest. Net Assets (Note 6) 1st Year Beg. Balance
Unrest/Temp Rest. Net Assets (Note 6) (for <i>Latest Fiscal Year</i> )	Unrestricted Net Assets + Temporarily Restricted Net Assets (all for <i>Latest Fiscal Year</i> )
Unrest/Temp Rest. Net Assets (Note 6) (for <i>Earlier Fiscal Year</i> )	Unrestricted Net Assets + Temporarily Restricted Net Assets (all for <i>Earlier Fiscal Year</i> )
Total Net Assets (Note 7) (Percent Change 2 Year)	(Total Net Assets (Note 7) (for <i>Latest Fiscal Year</i> ) – Total Net Assets (Note 7) 1st Year Beg. Balance) / Total Net Assets (Note 7) 1st Year Beg. Balance
Total Net Assets (Note 7) (Percent Change 1 Year)	(Total Net Assets (Note 7) (for <i>Earlier Fiscal Year</i> ) – Total Net Assets (Note 7) 1st Year Beg. Balance) / Total Net Assets (Note 7) 1st Year Beg. Balance
Total Net Assets (Note 7) (for <i>Latest Fiscal Year</i> )	Total Net Assets (for <i>Latest Fiscal Year</i> )
Total Net Assets (Note 7) (for <i>Earlier Fiscal Year</i> )	Total Net Assets (for <i>Earlier Fiscal Year</i> )
Excess of Rev Over Exp (Note 8) (Percent Change 1 Year)	(Excess of Rev Over Exp (Note 8) (for <i>Latest Fiscal Year</i> ) – Excess of Rev Over Exp (Note 8) (for <i>Earlier Fiscal Year</i> ))/ Excess of Rev Over Exp (Note 8) (for <i>Earlier Fiscal Year</i> )

**Steps 13 – 17 are same as in the Basic Flow.**

### 3. Special Requirements

No special requirements for this use case

### 4. Preconditions

4.1 Financial Analyst actor is logged into the eZ-Audits system

4.2 Financial Analyst actor has selected a financial statement

### 5. Postconditions

5.1 Composite score and ratios are calculated and Financial Analyst is ready to create determination for the financial statement

### 6. Extension Points

6.1 Populated fields on all four financial statement worksheets

The following data fields are populated for all four financial statement worksheets:

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1. Institution
2. OPEID
3. DUNS #
4. Fiscal Year End
5. Financial Analyst

## **6.2 List of requirements that relate to this use case**

GEN1074: The system will provide the financial reviewers the ability to change/edit the financial data used to calculate composite score.

## **6.3 Use Case 3 “Login to System”**

This use case provides a detailed explanation of the Login process.

## **6.4 Use Case 15 “Select an Institution”**

This use case explains the Case Team User’s ability to see their assigned queue and select an institution.